capabilities are created without having to start from scratch. Polymorphism and multiple inheritance make it possible for different programmers to mix and match characteristics of many different classes and create specialized objects that can still work with related objects in predictable ways. Class hierarchies and containment hierarchies provide a flexible mechanism for modeling realworld objects and the relationships among them. Libraries of reusable classes are useful in many situations, but they also have some limitations. example: Complexity. In a complex system, the class hierarchies for related classes can become extremely confusing, with many dozens or even hundreds of classes. Flow of control. A program written with the aid of class libraries is still responsible for the flow of control (i.e., it must control the interactions among all the objects created from a particular library). The programmer has to decide which functions to call at what times for which kinds of objects. Although class libraries allow Duplication of effort. programmers to use and reuse many small pieces of code, each programmer puts those pieces together in a different way. Two different programmers can use the same set of class libraries to write two programs that do exactly the same thing but whose internal structure (i.e., design) may be quite different, depending on hundreds of small decisions each programmer makes along the way. Inevitably, similar pieces of code end up doing similar things in slightly different ways and do

not work as well together as they should.

Detailed Description Text - DETX (20):

Frameworks also represent a change in the way programmers think about the interaction between the code they write and code written by In the others. early days of procedural programming, the programmer called libraries provided by the operating system to perform certain tasks, but basically the program executed down the page from start to finish, and the programmer was solely responsible for the flow of control. This was appropriate for printing out paychecks, calculating a mathematical table, or solving other problems with a program that executed in just one way.

Detailed Description Text - DETX (29):

Sun Microsystem's Java language solves many of the client-side problems by:
Improving performance on the client side; Enabling the creation of dynamic,
real-time Web applications; and Providing the ability to create a wide variety of user interface components.

Detailed Description Text - DETX (30):

With Java, developers can create robust User Interface (UI) components.

Custom "widgets" (e.g., real-time stock tickers, animated icons, etc.) can be

created, and client-side performance is improved. Unlike HTML, Java supports

the notion of client-side validation, offloading appropriate processing onto

the client for improved performance. Dynamic, real-time Web pages can be

created. Using the abovementioned custom UI components, dynamic Web pages can also be created.

Detailed Description Text - DETX (41): FIG. 3D illustrates an interface 360 for adding

consultants to a project in

accordance with an embodiment of the present invention. It should be noted

that access to projects is controlled on the basis of user ID. From this page

360, project administrators can grant access to project materials and allow

specific users to interact with project data.

Detailed Description Text - DETX (87):

FIG. 7G illustrates an interface 776 for choosing a key performance

indicator selection method in accordance with an embodiment of the present

invention. Clients respond to questionnaires through an online interface 776.

The present invention generates these pages based on the entries from the

questionnaire creation pages. Because the present invention compiles

questionnaire responses automatically, the questionnaires can be distributed to

hundreds of clients without significant increases in project workload.

Detailed Description Text - DETX (96):

Preferably, the group of manufacturers of such a system each hiss a common

logistics  $\underline{\text{profile}}$  and limitations. The manufacturers may focus on production

core competence and would also be responsible for strategic and tactical

optimization of network assets.

Detailed Description Text - DETX (97):

Also preferably, the group of service providers has common network profiles.

The service providers may focus on customers, new businesses and channels, etc.

Further, under the system of the present invention, the service providers would

be allowed to migrate from operations focus to strategic technology and market

## management.

Detailed Description Text - DETX (139):

This embodiment of the present invention includes a monitoring and control

system in which communication occurs through a fully distributed digital

telecommunications switch without a centralized routing and handling facility.

The distribution network is deployable to large numbers of residential and

commercial customers for bi-directional real-time
communication. While

initially designed for use with an electric power utility, the invention is

applicable in monitoring and controlling demand for other utilities such as gas

or water, as well as for data services.

Detailed Description Text - DETX (141):

The home monitoring and control network is located and operated within the

power utility customer's home and includes electrical control, monitoring, and

measurement devices which allow the utility to monitor electrical consumption

in <u>real time</u>, assist the customer in optimizing electrical power consumption,

and communicate <u>real-time</u> consumption and changes in consumption to the power

utility via the distribution network. Further, the home network permits

automatic meter reading and remote service disconnect and reconnect.

US-PAT-NO:

6567822

DOCUMENT-IDENTIFIER:

US 6567822 B1

TITLE:

Generating a data request graphical

user interface for

use in an electronic supply chain

value assessment

## ----- KWIC -----

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Brief Summary Text - BSTX (6):

Conventional planning processes implemented by enterprises in either type of

supply chain are not characterized by close cooperation.

Generally, the supply

chains are composed of separate enterprises with each running a separate

transactional execution system. The degree of planning across the enterprises

to plan for the whole supply chain is relatively nonexistent. Consequently, it

becomes difficult to effectively coordinate and create business relationships

that efficiently and effectively fills customers needs. It is desirable to

plan for the entire supply chain, as closely to  $\underline{\text{real time}}$  as possible, and to

propagate information forward and backward between enterprises.

Detailed Description Text - DETX (2):

FIG. 1 is a flowchart illustrating a process 100 for affording a

network-based supply chain value assessment in accordance with an embodiment of

the present invention. In operation 102, a first group of users is allowed to

create a <u>questionnaire</u> utilizing a network. The questionnaire is then

distributed to a second group of users utilizing the

network in operation 104.

Next, in operation 106, data from the second group of users in response to the

<u>questionnaire utilizing the network</u> is accepted. The data is then displayed

for performing a supply chain value assessment in operation 108.

Detailed Description Text - DETX (18):

Encapsulation protects the data in an object from accidental damage, but

allows other objects to interact with that data by calling
the object's member

functions and structures. Subclassing and inheritance make it possible to

extend and modify objects through deriving new kinds of objects from the

standard classes available in the system. Thus, new capabilities are created

without having to start from scratch. Polymorphism and multiple inheritance

make it possible for different programmers to mix and match characteristics of

many different classes and create specialized objects that can still work with

related objects in predictable ways. Class hierarchies and containment

hierarchies provide a flexible mechanism for modeling realworld objects and

the relationships among them. Libraries of reusable classes are useful in many

situations, but they also have some limitations. For example: Complexity. In

a complex system, the class hierarchies for related classes can become

extremely confusing, with many dozens or even hundreds of classes. Flow of

control. A program written with the aid of class libraries is still

responsible for the flow of control (i.e., it must control the interactions

among all the objects created from a particular library). The programmer has

to decide which functions to call at what times for which kinds of objects.

Duplication of effort. Although class libraries allow programmers to use and

reuse many small pieces of code, each programmer puts those pieces together in

a different way. Two different programmers can use the same set of class

libraries to write two programs that do exactly the same thing but whose

internal structure (i.e., design) may be quite different, depending on hundreds

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Detailed Description Text - DETX (20):

Frameworks also represent a change in the way programmers think about the

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Sun Microsystem's Java language solves many of the client-side problems by:

Improving performance on the client side; Enabling the creation of dynamic,

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With Java, developers can create robust User Interface (UI) components.

Custom "widgets" (e.g., real-time stock tickers, animated icons, etc.) can be

created, and client-side performance is improved. Unlike HTML, Java supports

the notion of client-side validation, offloading appropriate processing onto

the client for improved performance. Dynamic, <u>real-time</u> Web pages can be

created. Using the abovementioned custom UI components, dynamic Web pages can also be created.

Detailed Description Text - DETX (33):

FIG. 3 is a flowchart illustrating a process 300 for generating a project in

an electronic supply chain value assessment in accordance with an embodiment of

the present invention. First, the selection of a plurality of key performance

indicators is allowed utilizing a network in operation 302. Then, in operation

304, a questionnaire is sent to users utilizing the network. Data from the

users is accepted in response to the <u>questionnaire</u> utilizing the network in

operation 306. Finally, the key performance indicators, the questionnaire, and

the data are stored in a database for performing an assessment in operation 308.

Detailed Description Text - DETX (41):

FIG. 3D illustrates an interface 360 for adding consultants to a project in

accordance with an embodiment of the present invention. It should be noted

that access to projects is controlled on the basis of user ID. From this page

360, project administrators can grant access to project

materials and allow specific users to interact with project data.

Detailed Description Text - DETX (87):

FIG. 7G illustrates an interface 776 for choosing a key performance

indicator selection method in accordance with an embodiment of the present

invention. Clients respond to questionnaires through an online interface 776.

The present invention generates these pages based on the entries from the

questionnaire creation pages. Because the present invention compiles

questionnaire responses automatically, the questionnaires can be distributed to

hundreds of clients without significant increases in project workload.

Detailed Description Text - DETX (96):

Preferably, the group of manufacturers of such a system each hiss a common

logistics profile and limitations. The manufacturers may focus on production

core competence and would also be responsible for strategic and tactical

optimization of network assets.

Detailed Description Text - DETX (97):

Also preferably, the group of service providers has common network profiles.

The service providers may focus on customers, new businesses and channels, etc.

Further, under the system of the present invention, the service providers would

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Detailed Description Text - DETX (139):

This embodiment of the present invention includes a monitoring and control

system in which communication occurs through a fully

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The distribution network is deployable to large numbers of residential and

commercial customers for bi-directional <a href="real-time">real-time</a> communication. While

initially designed for use with an electric power utility, the invention is

applicable in monitoring and controlling demand for other utilities such as gas

or water, as well as for data services.

## Detailed Description Text - DETX (141):

The home monitoring and control network is located and operated within the

power utility customer's home and includes electrical control, monitoring, and

measurement devices which allow the utility to monitor electrical consumption

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US-PAT-NO:

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Generating a data request graphical

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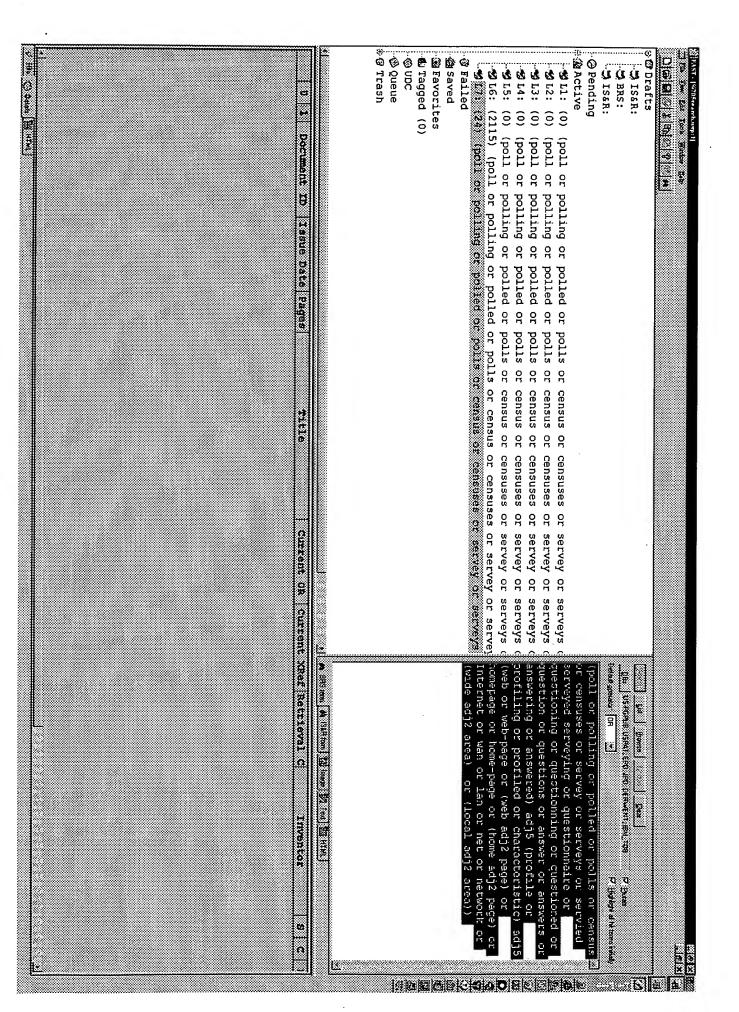
Encapsulation protects the data in an object from accidental damage, but

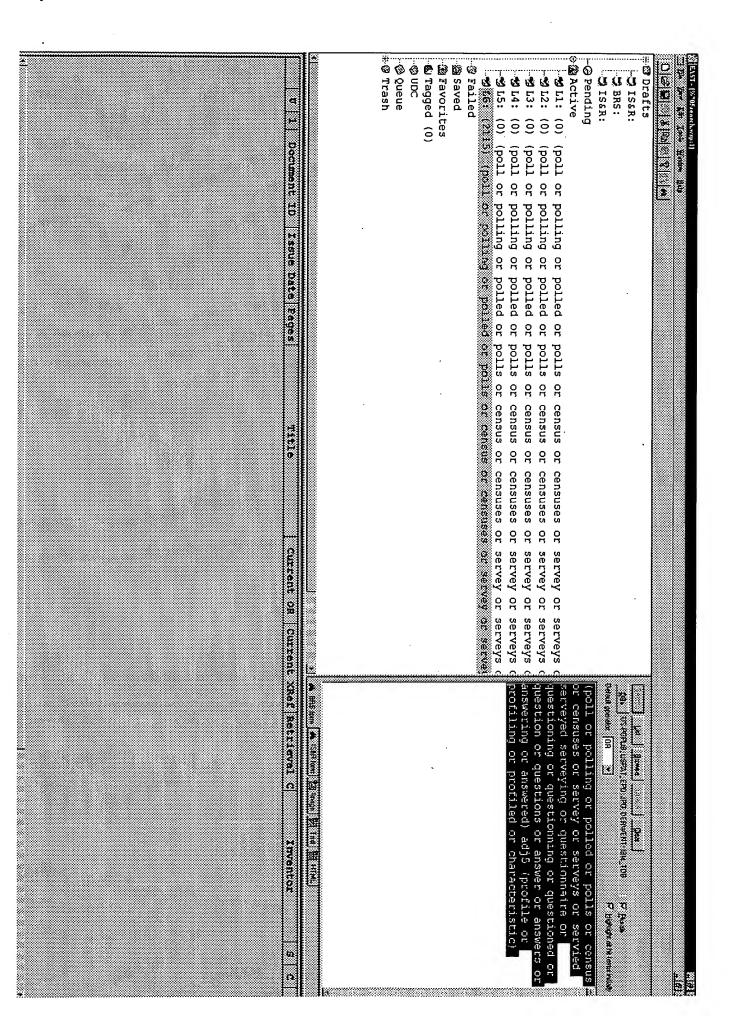
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